

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A motor comprising:

a stator;

a rotor rotatably disposed around the stator; and

a rotor cup having cooling-holes formed at the bottom part thereof for allowing external air to flow into the inside of the rotor cup therethrough, and lower blades formed at the bottom part thereof for generating a blowing force, the rotor being fixed to the rotor cup at the inner circumference thereof,

wherein each of the lower blades protrudes from one side of each of the cooling-holes towards the stator,

wherein each of the lower blades and the cooling-holes has an acute sloping angle to the line extended in the rotating direction of the rotor cup and perpendicular to the radial direction of the rotor cup, and

wherein a plurality of upper blades are located above the top of the rotor for discharging external air, which flows into the rotor cup through the cooling-holes formed at the bottom part of the rotor and then passes through the stator, to outside of the rotor cup, and

wherein a plurality of vents are located at a lower circumferential surface of the rotor cup, a bottom of the vents is located above a bottom of the rotor cup, and a top of the vents is located above a top of the lower blades such that the air introduced into the inside of the rotor cup through the cooling holes formed at the bottom of the rotor cup collides with the stator and is discharged to outside of the rotor cup without passing through the stator.

2-4. (Canceled)

5. (Previously Presented) The motor as set forth in claim 1, wherein the upper blades extend upwardly from the top of the rotor and protrude upwardly above the rotor cup.

6. (Original) The motor as set forth in claim 5, wherein the upper blades are formed such that each of the upper blades is at a prescribed angle to the radial direction of the rotor.

7. (Original) The motor as set forth in claim 6, wherein each of the upper blades has an acute sloping angle to the line extended in the rotating direction of the rotor and perpendicular to the radial direction of the rotor.

8-11. (Cancelled)

12. (Currently Amended) The motor as set forth in claim 1, A motor comprising:
a stator;
a rotor rotatably disposed around the stator; and
a rotor cup having cooling-holes formed at the bottom part thereof for allowing external
air to flow into the inside of the rotor cup therethrough, and lower blades formed at the bottom
part thereof for generating a blowing force, the rotor being fixed to the rotor cup at the inner
circumference thereof,

wherein each of the lower blades protrudes from one side of each of the cooling-holes towards the stator,

wherein each of the lower blades and the cooling-holes has an acute sloping angle to the line extended in the rotating direction of the rotor cup and perpendicular to the radial direction of the rotor cup,

wherein a plurality of upper blades are located above the top of the rotor for discharging external air, which flows into the rotor cup through the cooling-holes formed at the bottom part of the rotor and then passes through the stator, to outside of the rotor cup,

wherein a plurality of vents are located at a lower circumferential surface of the rotor cup, a bottom of the vents is located above a bottom of the rotor cup, and a top of the vents is located above a top of the lower blades such that the air introduced into the inside of the rotor cup through the cooling holes formed at the bottom of the rotor cup collides with the stator and is discharged to outside of the rotor cup without passing through the stator, and

wherein the ratio of the whole areas of the cooling-holes to the whole areas of the vents is 2:1 to 4:1.

13-24. (Canceled)

25. (Previously Presented) The motor as set forth in claim 1, wherein the cooling-holes are rectangular in shape.

26. (Previously Presented) The motor as set forth in claim 1, wherein a perimeter of each cooling-hole is located entirely within a flat bottom portion of the bottom part.

27. (Previously Presented) The motor as set forth in claim 1, wherein a shape of the lower blades is the same as a shape of the cooling-holes.

28. (Previously Presented) The motor as set forth in claim 1, wherein a size of the lower blades is the same as a size of the cooling-holes.

29. (Previously Presented) The motor as set forth in claim 1, wherein each lower blade is a portion of the bottom part that has been cut and bent upwardly.